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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/840,085	05/05/2004	Young-Dong Koo	1190860-991540	7843
26379	7590	04/10/2006	EXAMINER	
DLA PIPER RUDNICK GRAY CARY US, LLP			NGO, HUYEN LE	
2000 UNIVERSITY AVENUE			ART UNIT	
E. PALO ALTO, CA 94303-2248			PAPER NUMBER	
			2871	

DATE MAILED: 04/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/840,085

Applicant(s)

KOO ET AL.

Examiner

Julie-Huyen L. Ngo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 6 and 11 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7-10 and 12-20 is/are rejected.
- 7) ☒ Claim(s) 1-5, 7-10 and 12-20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 May 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Election/Restrictions***

Applicant's election without traverse of species A, which readable on claims 1-5, 7-10, 12-20 and Fig. 1, in the reply filed on January 17, 2006, is acknowledged.

Claims 6 and 11 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

### ***Priority***

Receipt is acknowledged of paper submitted under 35 U.S.C. 119(a)-(d), which paper has been placed of record in the file.

### ***Drawings***

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "*ground member*" recited in claims 1-5, 9, 10, 12-14 and 17-19 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate

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changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Specification***

The specification is objected to as failing to provide proper antecedent basis for the subject matter recited in claims 4, 13 and 18. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction is required.

### ***Claim objections***

Claims 1-5, 7-10 and 12-20 are objected to because of the following issues:

In claims 3, 12 and 17, the recitation calling for "...*receiving space defined by the side wall...*" is unclear of how a receiving space is defined by only one sidewall, shall there be four sidewalls?

In claims 4, 13 and 18, the recitation calling for "...*an end portion opposite to the bottom surface ...*" is unclear of which considered being the end portion with respect to the bottom surface of the second receiving container or PCB case or inverter case.

Claims 8 and 9 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s)

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in proper dependent form, or rewrite the claim(s) in independent form. Claim 8 recites that *“the driving part comprises an inverter that drives the lamp assembly,”* however, claim 8 is indirectly depended from claim 1, which recites that *“a driving part disposed on the first receiving container to drive the flat display.”* According to the specification and drawings (figs 1-4) there are different driving parts 176a/176 & 165 that drive the flat display and the lamp assembly, respectively. A similar problem exists in claim 9 with the second receiving container, which should be a different/another receiving container 139 to receive the inverter 165 (see fig. 2).

In claims 1, 12 and 12, it is unclear from the language of the claims how the ground member is being disposed and connected in order to electrically connect the PCB case/second receiving container/the receiver case to the bottom chassis/first-receiving container.

Claims not specifically mentioned above are objected since they depend on the objected claims.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 7-10 and 12-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Cho (US20040239828A1).

Cho teaches (Figs. 1-7) forming a flat display apparatus comprising:

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Claims 1, 12 and 17:

- a flat display panel/display unit 170 displaying an image;
- a first receiving container/ bottom chassis 134 under the display unit for receiving the flat display panel;
- a driving part/Printed Circuit Board (PCB) 175/176 (paragraph 6) disposed on the first receiving container/ bottom chassis 134 to drive the flat display panel;
- a second receiving container/PCB case/inverter case (shield case 138) covering the driving part/PCB/inverter to block (for cutting off electromagnetic waves) an electromagnetic radiation radiated from the driving part/PCB/inverter (paragraph 13)
- a ground member 138a (fig. 3) formed with the second receiving container/PCB case/inverter case 138 to electrically connect the first receiving container/bottom chassis 134 to the second receiving container/PCB case/inverter case 138

Wherein

Claim 2:

- the driving part comprises a printed circuit board (PCB) 176 that applies an electric signal to the flat display panel

Claims 3 and 9:

- the second receiving container 138 comprises a bottom surface, a sidewall protruded from a side of the bottom surface and a receiving space defined by a plurality of sidewalls to receive the printed circuit board (PCB)/inverter, and the ground member is inherently formed between the sidewall and the first receiving

container to electrically connect the first receiving container to the second receiving container (paragraphs 12&13).

Claims 4, 13 and 18:

- the sidewall comprises an extended portion that is extended in a direction in substantially parallel with the bottom surface from an end portion opposite to the bottom surface, and the ground member 138a disposed on the extended portion in order to electrically connect the first receiving container to the second receiving container (see fig. 3)

Claims 5, 10, 14 and 19:

- the ground member comprises an embossed pattern.

Claim 7:

- a backlight assembly 150 including a lamp 161/162 assembly that generates a light, an optical sheet 153 assembly that improves an optical characteristics of the light generated from the lamp, and wherein the flat display panel 170 comprises a liquid crystal display (LCD) panel 171 receiving the light that passes through the optical sheet assembly to display an image using a liquid crystal disposed between substrates 172/173 of the liquid crystal display panel.

Claim 8:

- the driving part comprises an inverter (inverter board for supplying power, paragraph 13) that drives the lamp assembly.

Claim 15:

- a top chassis 140 disposed on the bottom chassis to secure the display unit.

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Claims 16, 17 and 20:

- the flat display apparatus 100 comprising a backlight assembly 150 disposed between the display unit 170 and the bottom chassis 134 to supply the display unit with a light; and a mold frame 132 disposed between the backlight assembly and the bottom chassis to support the backlight assembly.

***Conclusion***

Matsuda (US 5929950) discloses the LCD having the shielding case 8 covering the circuit board below the receiver that receives the LC panel.

Yong-II Kim (US 6847417 B2) disclose a liquid crystal display apparatus comprising (fig. 17A) a PCB cover 700 has a size appropriate to cover the integrated PCB 325 and a plurality of perforation holes 710, 720 and 730 corresponding to the first grounding portion 552, 554 and 556. The integrated PCB 325 and the PCB cover 700 are fixed to the rear surface of the bottom chassis 370 by a screw 701 inserted into the perforation holes of the first and second grounding portion and the PCB cover 700.

Ryohei (JP10-020308) discloses the LCD device having a countermeasure to shielding and to remove taking in a noise by almost completely covering a part except the LCD part of a LCD panel and flat cable by shield means.

Fumihiko (JP2000-181362) discloses LCD device having a black light part in a shield member and grounding the driving circuit of LCD device.



**Contact Information**

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (571) 272-2295. The Examiner can normally be reached on Monday-Thursday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Font G. Frank can be reached at (571) 272-2415.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1562.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 3, 2006



**Julie -Huyen L. Ngo**  
Primary Examiner  
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